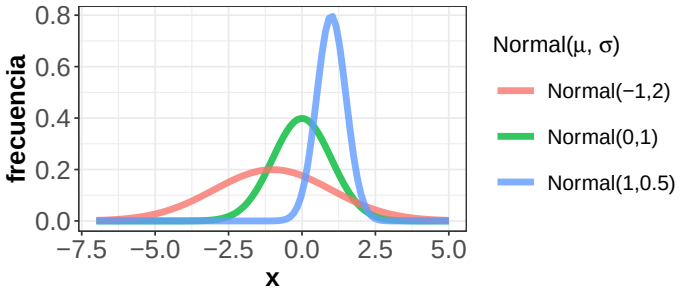
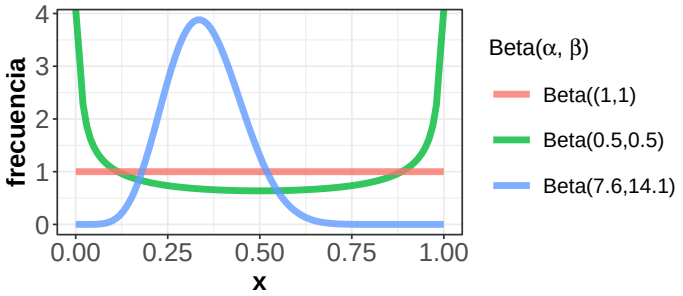
Distribuciones continuas

Distribución Normal o Gaussiana



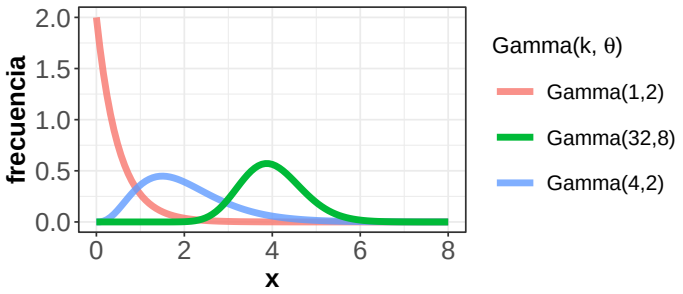
	Dominio:	R/NIMBLE:
$X \sim \text{Normal}(\mu, \sigma)$	$X \in (-\infty, \infty)$	dnorm(mean, sd)
$X \sim \text{Normal}(\mu, \tau)$	$\mu \in (-\infty, \infty)$	
$\tau = 1/\sigma$	$\sigma > 0$(reales)	

Distribución Beta



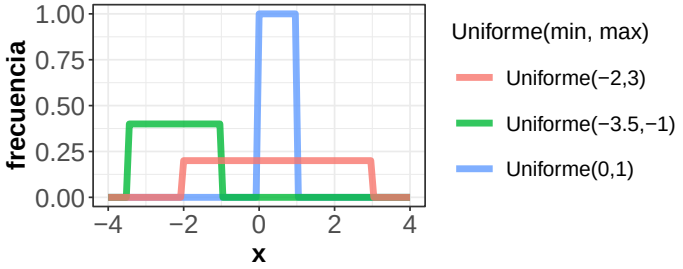
	Dominio:	R/NIMBLE:
$X \sim \text{Beta}(\alpha, \beta)$	$X \in [0, 1]$	dbeta(alpha, beta)
$X \sim \text{Beta}(\mu, \sigma)$	$\alpha > 0$(real)	
$\mu = \alpha/(\alpha+\beta)$	$\beta > 0$(real)	
$\sigma = \sqrt{\frac{\alpha\beta}{(\alpha+\beta)^2(\alpha+\beta+1)}}$		

Distribución Gamma



	Dominio:	R/NIMBLE:
$X \sim \text{Gamma}(\alpha, \beta)$	$X \in (0, \infty)$	dgamma(shape, rate)
$X \sim \text{Gamma}(\mu, \sigma)$	$\alpha > 0$(real)	
$\mu = \alpha/\beta$	$\beta > 0$(real)	
$\sigma = \alpha/\beta^2$		

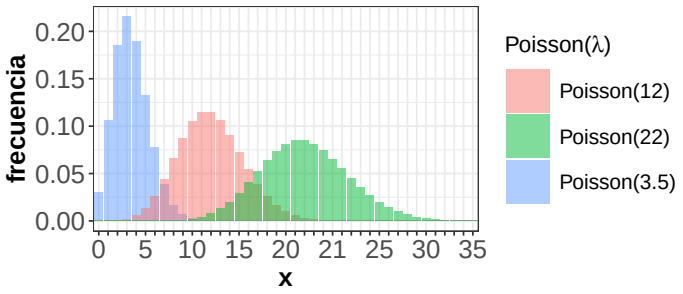
Distribución Uniforme



	Dominio:	R/NIMBLE:
$X \sim \text{Unif}(\text{min}, \text{max})$	$X = (-\infty, \infty)$	dunif(min, max)
	$\text{min} \in (-\infty, \infty)$(real)	
	$\text{max} \in (-\infty, \infty)$(real)	

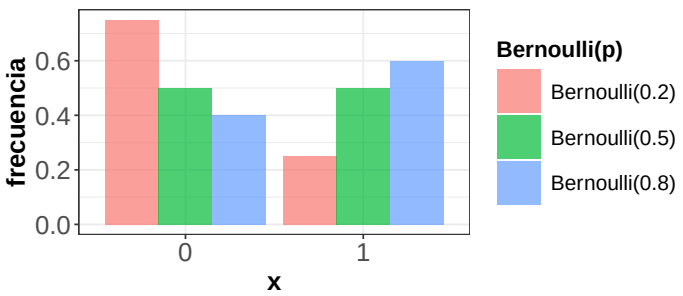
Distribuciones discretas

Distribución de Poisson



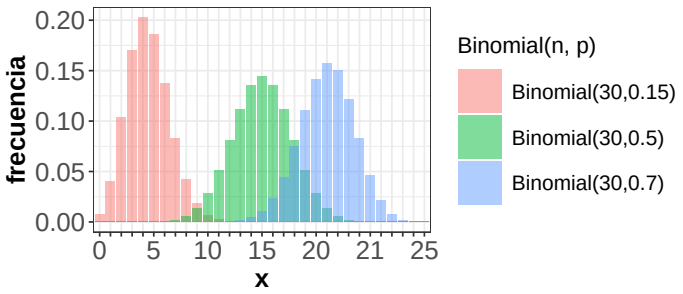
	Dominio:	R/NIMBLE:
$X \sim \text{Poisson}(\lambda)$	$X \in (0, \infty)$ (naturales)	dpois(lambda)
	$\lambda \in (0, \infty)$ (reales)	

Distribución de Bernoulli



	Dominio:	R/NIMBLE:
$X \sim \text{Bernoulli}(p)$	$X \in \{0, 1\}$	dbinom(1, prob)
	$p \in [0, 1]$	dbern(prob)

Distribución Binomial



	Dominio:	R/NIMBLE:
$X \sim \text{Binomial}(n, p)$	$X \in \{0, n\}$	dbinom(size, prob)
	$n \in [0, \infty)$(natural)	dbern(prob, size)
	$p \in [0, 1]$	

Inferencia Bayesiana en Ecología con R

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